Aluminum Face Panel-Mount Type
Flat Panel Display

DC12V Power Supply, 6"TFT, Analog/DVI

IPC-DT/S61VT-DC1

This product is a dual-input (analog RGB and DVI-D), panel-mounted, color TFT LCD display unit for use with host computers such as the CONTEC IPC series and SBCs (single board computers).

DC12V Power Supply, 10"TFT, Analog/DVI

IPC-DT/M61VT-DC1

AC Wide Power Supply, 10"TFT, Analog/DVI.

IPC-DT/M61VT-AC0

DC12V Power Supply, 12"TFT, Analog/DVI

IPC-DT/L61SVT-DC1

AC Wide Power Supply, 12"TFT, Analog/DVI.

IPC-DT/L61SVT-AC0

DC12V Power Supply, 15"TFT, Analog/DVI

IPC-DT/H61XT-DC1

AC Wide Power Supply, 15"TFT, Analog/DVI.

IPC-DT/H61XT-AC0

Features

- Full-bright, wide-angle-of-visibility type of liquid crystals capable of displaying up to 262,144 colors (16,777,216 colors on the IPC-DT/H61XT-DC1 and AC0)
- Standard analog RGB input for screen. RS-232C and USB interfaces for touch panel.
- Multiple touch panel configurations containing up to eight touch panels are supported when using the USB touch panel interface.
- Auto-scaling feature that resizes the input screen to the LCD dot configuration.
- On-screen display setup menu facilitating screen adjustment
- Dual-input function supports analog RGB and DVI-D inputs. The display can be connected to two different computers at once. (Simultaneous display is not supported. Screens are switched using the OSD.)
- Analog touch panel enabling mouse emulation using driver software
- Optional AC adapter (IPC-ACAP12-01) available for AC power supply.
- Front structure with IP65-compliant ingress protection
- Optional stand kit available for desktop use.
- A special fitting is provided to prevent the AC adapter cable from being unplugged.

Use environment

This product operates under the following operating systems:
Windows XP/2000/NT 4.0/98SE/95OSR2, MS-DOS 6.2

* The touch panel USB interface is only supported on Windows XP/2000/98SE.

Life expectancy of components

(1) Backlight--- Display brightness decreases over time with use. The operating life of the backlight (brightness reduced to 50% of original) is 50,000 hours for all models. (Assuming continuous operation at 25℃ centigrade.)

(2) Touch panel--- The operating lifetime of the touch panel is at least 1 million touches (as tested by mechanical touching under 300g of force at a rate of two presses per second).

(3) Power supply (AC adapter) --- Expected life is six years for continuous operation at 40℃ (when mounted horizontally). However, this life may be reduced depending on the operating temperature (in the case of higher temperatures).

* CONTEC accepts your request for replacing each consumable in the PANECON-PC as a request for repair (at an additional cost). Contact your local retailer or CONTEC sales office.

Specification

■ Function Specifications

Item			Specification			
			IPC-DT/S61VT-DC1	IPC-DT/M61VT-DC1 IPC-DT/M61VT-AC0	IPC-DT/L61SVT-DC1 IPC-DT/L61SVT-AC0	IPC-DT/H61XT-DC1 IPC-DT/H61XT-AC0
Screen						
Assembly type			Panel mounted, desktop *1			
Screen size			6.5 inches	10.4 inches	12.1 inches	15.0 inches
Number of pixels			640 x 480 dots	640 x 480 dots	800 x 600 dots	1024 x 768 dots
Display type			TFT Color LCD			
Number of colors			262,144 colors	262,144 colors	262,144 colors	16,777,216 colors
Screen adjustment			Automatic adjustment (display positioning and scaling) and manual adjustment using the front switches			
Brightness control			Adjustment using the front switch or software control from the host computer			
Backlight control			Can be turned on or off by an OSD switch or via software control from the host computer.			
Display interface			Analog RGB input HD-SUB 15 pin (Female) connector DVI-D input 24 pin DVI (Female) connector			
Incoming signal specification	Analog RGB input		Separate RGB, analog, positive polarity 0.7Vp-p/75Ω Separate V/H, TTL, positive/negative polarity Horizontal: 31 - 80kHz, vertical: 56 - 75Hz			
	DVI-D input		Digital RGB (complies with TMDS) *2			
Cable length which recommends			5mm or less *3			
Touch panel						
Resolution			4096 x 4096			
Detection method			Resistive-layer analog method			
Touch life expectancy			One million repeated touches (silicon rubber load of 3 N)			
Touch panel interface			Connect to the host computer using either USB*4 or RS-232C. USB: USB1.1-compliant, TypeB Connector RS-232C: 9pin D-SUB (Male) Connector			
Touch panel driver (option)			For Windows: IPC-SLIB-01 For MS-DOS: IPC-TPB1-DRV			

*1 Optional desk stand IPC-SND-03 allowing desktop installation

*2 If the output is from a CONTEC IPC series or SBC series model, an ISA bus type panel link I/F board (ADPLNK(PC)H) is required for some models. Please confirm before purchasing.

*3 Using a cable longer than 5 m may reduce the image quality. The cable should be as short as possible as degradation. in image quality may result even when the cable is 5 m or shorter depending on the type of host computer or cable.

*4 The touch panel USB interface is only supported on Windows XP/2000/98SE.

Power Supply Specifications (DC Input Type)

Item		Specification			
		IPC-DT/S61VT-DC1	IPC-DT/M61VT-DC1	IPC-DT/L61SVT-DC1	IPC-DT/H61XT-DC1
Power supply input part					
Power supply connector		4-pin nylon connector for 12 VDC power supply			
AC adapter jack		AC adapter jack for 12 VDC power supply (An optional AC adapter (IPC-ACAP12-01) can be used for 100 - 240VAC input.)			
Input power supply voltage		+12VDC±5%			
Consumption current		1.3A(Max.)	1.4A(Max.)	1.6A(Max.)	2.5A(Max.)
Consumption current (power save mode)		0.4A(Max.)			

Power Supply Specifications (AC Input Type)

Item		Specification		
		IPC-DT/M61VT-AC0	IPC-DT/L61SVT-AC0	IPC-DT/H61XT-AC0
Power supply input part				
Power supply connector		Three-pin terminal block for the AC power supply		
Input power supply voltage		Auto-switched 85 - 132VAC / 170 - 265VAC (47 - 63Hz) input		
Power consumption		36VA (Max.)	40VA (Max.)	60VA (Max.)
Current consumption (power save mode)		14VA (Max.)		

■ General Specifications

Item			Specification
Environment			
	Operating temperature		0 - 50°C (0 - 40°C when using an IPC-ACAP12-01 (AC switching adapter))
	Storage temperature		-10 - 60°C
	Operating humidity		(20 - 80% when using an IPC-ACAP12-01 (AC switching adapter))(No condensation allowed)
	Floating dust		Normal
	Corrosive gas		None
	Noise resistance	Line noise	AC line: 2 kV, Signal line: 1 kV (IEC1000-4-4Level3, EN61000-4-4Level3) (HOST: IPC-BX/M600(PCW) Power supply: IPC-POA200/12-01)
		Electrostatic withstanding voltages	Contact: 4 kV(IEC1000-4-2Level2, EN61000-4-2Level2) Airborne: 8 kV(IEC1000-4-2Level3, EN61000-4-2Level3) (HOST: IPC-BX/M600(PCW) Power supply: IPC-POA200/12-01)
	Vibration resistance	Sweep durability	10 - 57 Hz/Single-side amplitude or 0.15 mm 57 - 150 Hz/2.0 G in the X/Y/Z directions for 23 minutes each (Conforming to JIS C0040 and IEC68-2-6)
	Shock resistance		10 G in the X/Y/Z directions for 11 ms; Half-sine wave (Conforming to JIS C0041 and IEC68-2-27)

Structure specification (DC Input Type)

Item		Specification			
		IPC-DT/S61VT-DC1	IPC-DT/M61VT-DC1	IPC-DT/L61SVT-DC1	IPC-DT/H61XT-DC1
Structure					
	Major dimension (mm)	198(W)x35(D)x154(H) (Board depth)	291(W)x38.5(D)x226(H) (Board depth)	302(W)x41.5(D)x242(H) (Board depth)	359(W)x41(D)x284(H) (Board depth)
	Panel cut dimensions (mm)	199.0(W)x155.0(H)	292.0(W)x227.0(H)	303.0(W)x243.0(H)	358.0(W)x289.0(H)
	Mountable panel thickness	1.6mm - 7mm			
	Weight	1.3kg	2.6kg	2.9kg	3.9kg
	Ingress protection	Front part conforming to IP65			

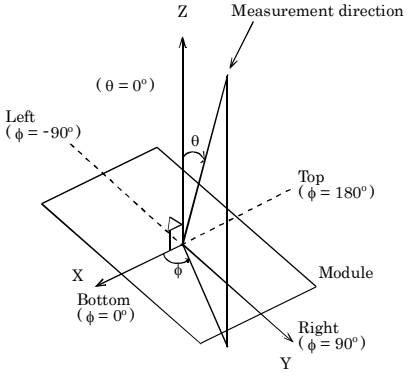
Structure specification (AC Input Type)

Item		Specification		
		IPC-DT/M61VT-AC0	IPC-DT/L61SVT-AC0	IPC-DT/H61XT-AC0
Structure				
	Major dimensions (mm)	291(W)x46.5(D)x226(H) (Board depth)	302(W)x49.5(D)x242(H) (Board depth)	359(W)x49(D)x284(H) (Board depth)
	Panel cut dimensions (mm)	292.0(W)×227.0(H)	303.0(W)×243.0(H)	358.0(W)x289.0(H)
	Mountable panel thickness	1.6mm - 7mm		
	Weight	2.8kg	3.1kg	4.1kg
	Ingress protection	Front part conforming to IP65		

■ Optical Display Specifications

Item	Condition			Specifications (25°C Typ. Value)			
				IPC-DT/S61VT-DC1	IPC-DT/M61VT-DC1 IPC-DT/M61VT-AC0	IPC-DT/L61SVT-DC1 IPC-DT/L61SVT-AC0	IPC-DT/H61XT-DC1 IPC-DT/H61XT-AC0
Visual angle (vertical)	CR≥10	ϕ=180°	Display in monochrome	45deg	50deg	50deg	45deg
		ϕ=0°		35deg	70deg	70deg	55deg
Visual angle (horizontal)		ϕ=+90°		50deg	70deg	70deg	60deg
		ϕ=-90°		50deg	70deg	70deg	60deg
Surface brightness (at center)	Display in white			300cd/m²	400cd/m²	350cd/m²	260cd/m²

*1 Surface brightness is a numerical value in a display simple substance.
The brightness that let the touch panel pass serves as about 75% of the above-mentioned numerical value.



▼ CAUTION

The above optical specification data shows optical characteristics of the liquid crystal in the display; the data does not represent the actual view on the display or its viewing angles.

Options

■ Screen protective sheets

- IPC-CV6 : 6.4-inch screen protective sheets (10 sheets)
- IPC-CV : 10-inch screen protective sheets (10 sheets)
- IPC-CV12 : 12.1-inch screen protective sheets (10 sheets)
- IPC-CV15 : 15-inch screen protective sheets (10 sheets)

■ Cable

- IPC-DVI/D-020 : DVI-D cable (2m)
- IPC-DVI/D-050 : DVI-D cable (5m)
- IPC-PLDVI-020 : Panel link - DVI-D conversion cable (2m)
- IPC-PLDVI-050 : Panel link - DVI-D conversion cable (5m)
- IPC-CBL3-2 : Touch panel, COM cable (2m)
- IPC-CBL3-5 : Touch panel, COM cable (5m)

■ Driver

- IPC-SLIB-01: Driver & Utility Soft Set (CD-ROM version)

■ Others

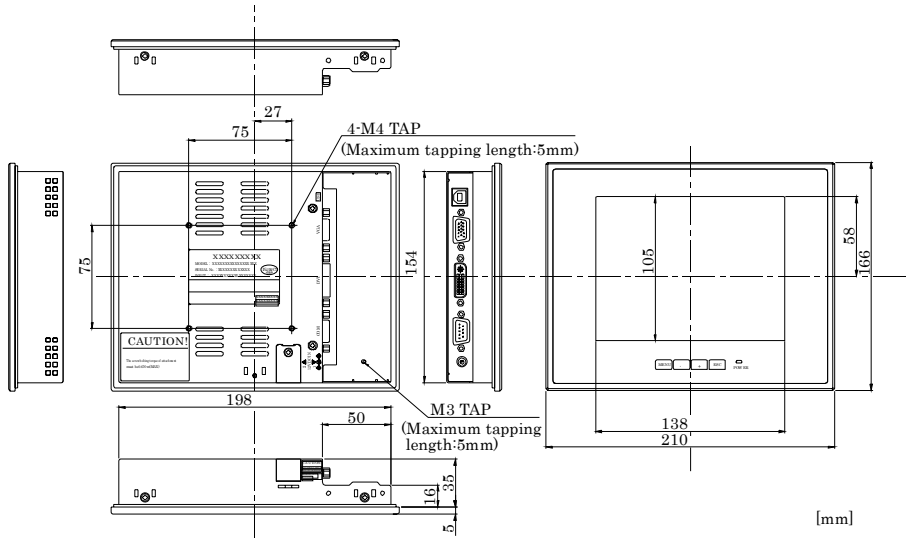
- IPC-SND-03 : Desk stand
- IPC-ACAP12-01 : +12 VDC output AC adapter
  Input: Voltage = 90 - 264V AC, Current =1.3A (Typ.)
  (for input voltage = 100V AC)
  Output: Voltage = 12V DC, Current = 3.5A

■ Recommendation Cable(Maker: SANWA SUPPLY INC.)

- KC-V2 : RGB display cable (2m)
- KC-V5 : RGB display cable (5m)
- KU20-2H : USB cable for touch panel (2m)
- KU20-5H : USB cable for touch panel (5m)

Outside Dimensions

■ IPC-DT/S61VT-DC1



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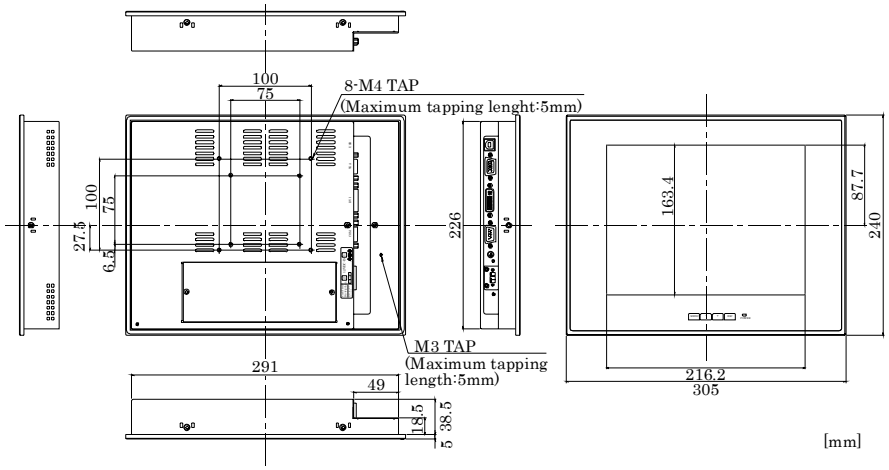
■ IPC-DT/M61VT-DC1



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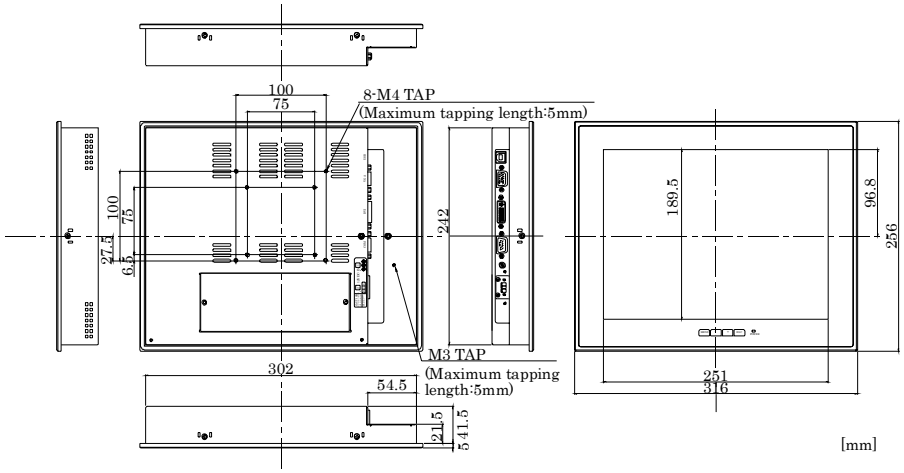
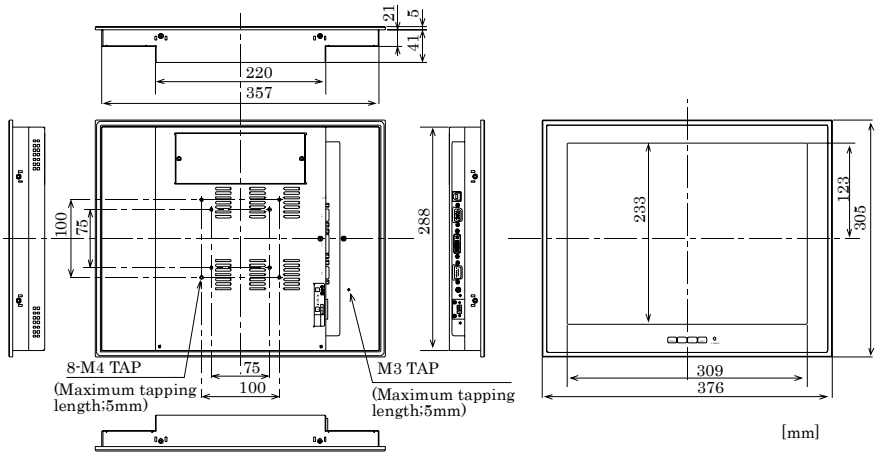
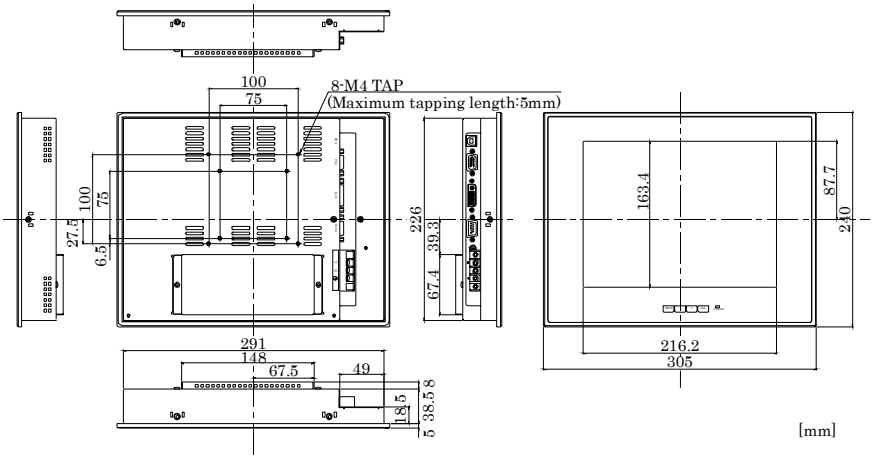
■IPC-DT/L61SVT-DC1



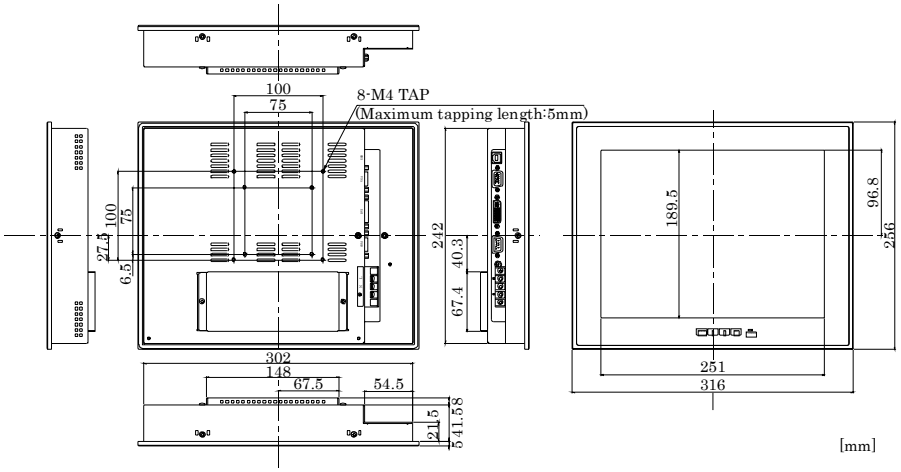
■IPC-DT/H61XT-DC1



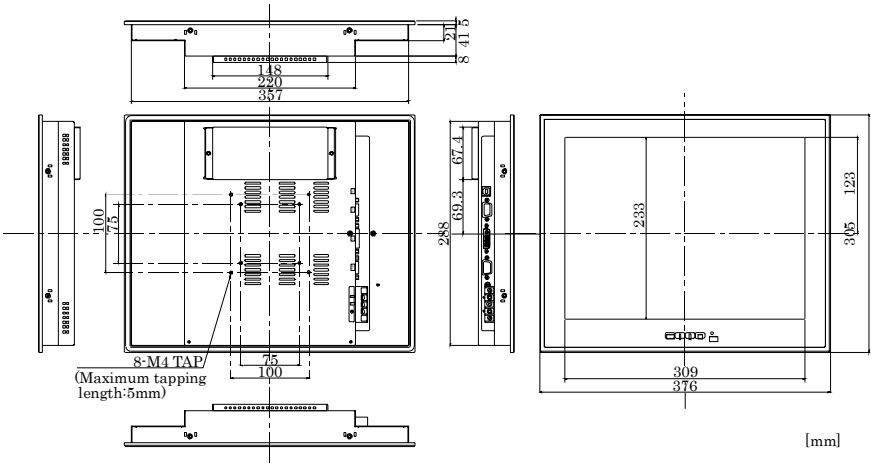
■IPC-DT/M61VT-AC0



■ IPC-DT/L61SVT-AC0

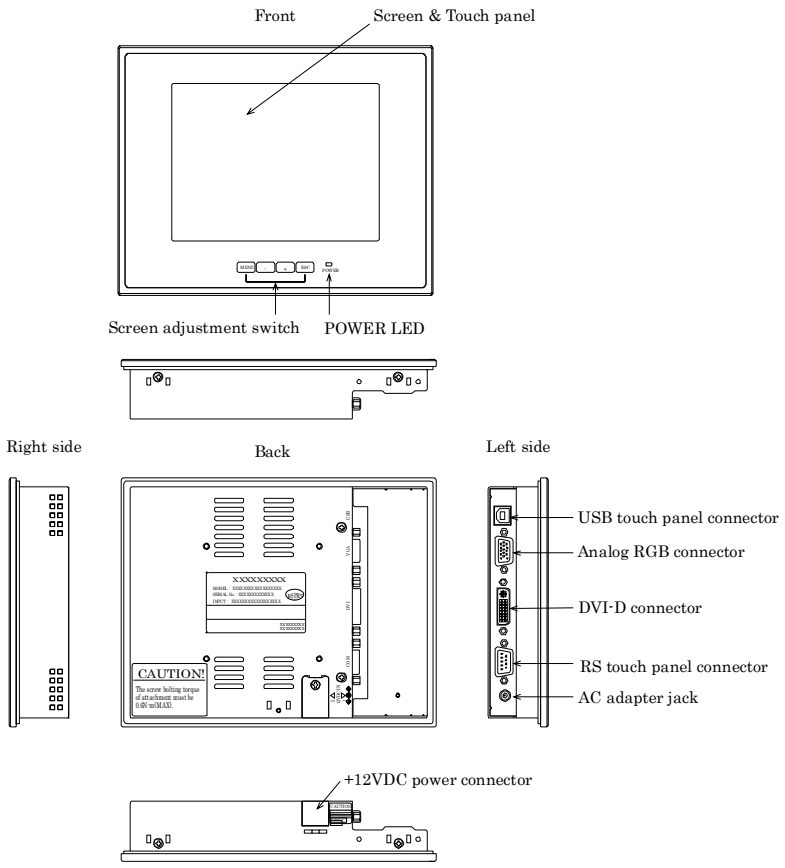


■ IPC-DT/H61XT-AC0

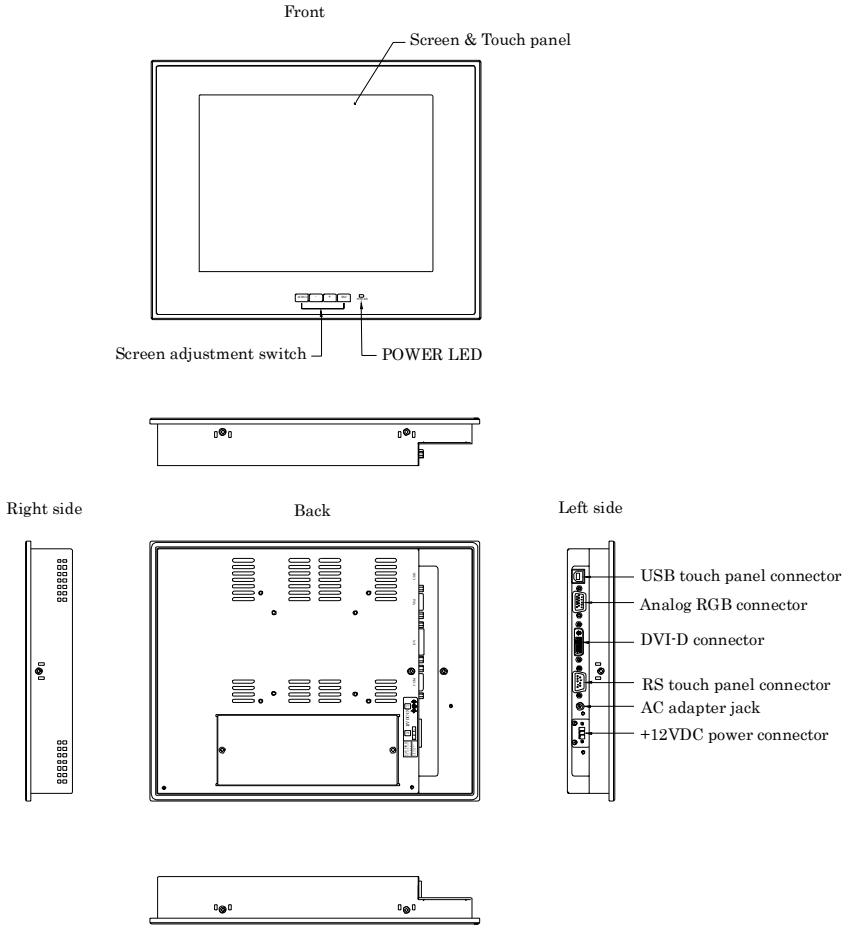


Part Names

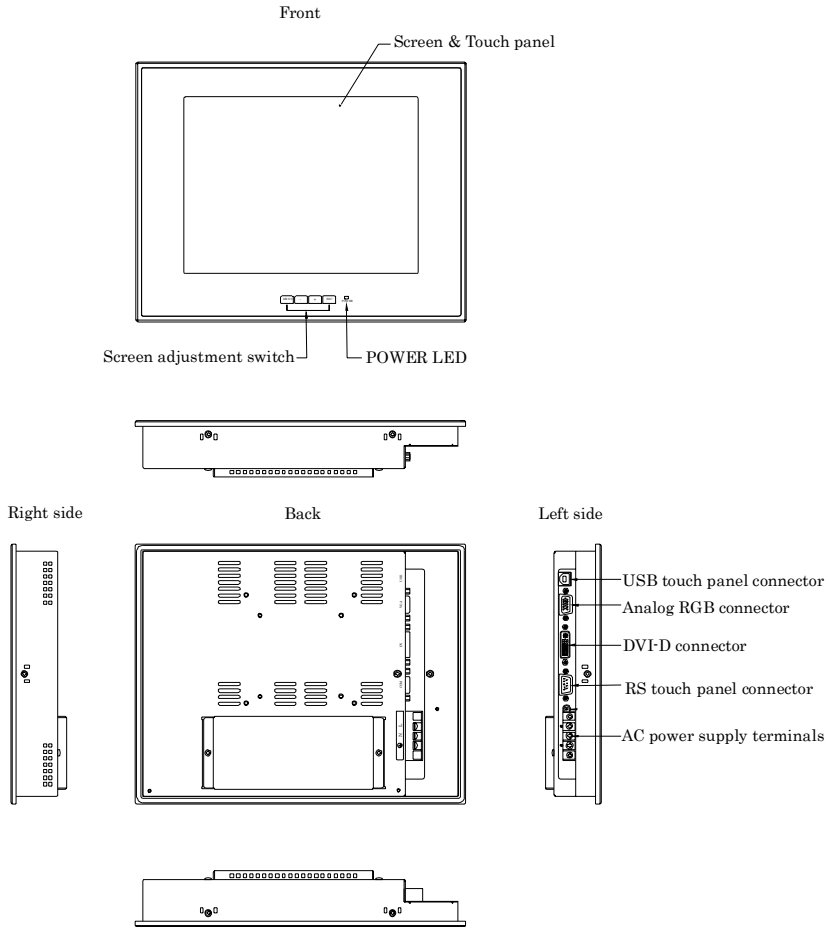
■ IPC-DT/S61VT-DC1



■ IPC-DT/M61VT-DC1, IPC-DT/L61SVT-DC1, IPC-DT/H61XT-DC1

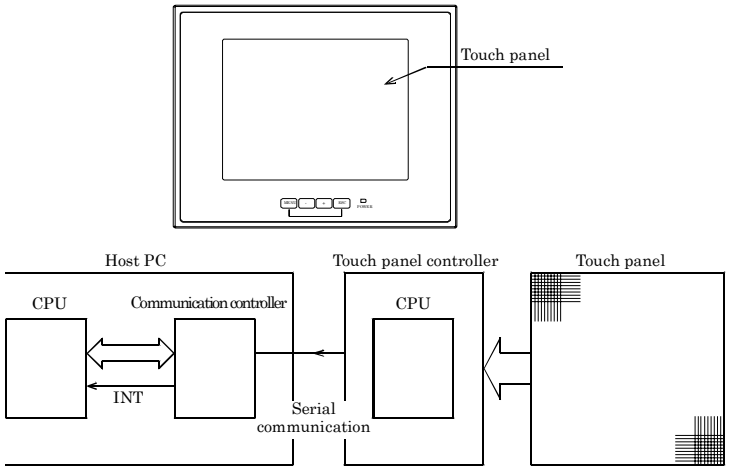


■ IPC-DT/M61VT-AC0, IPC-DT/L61SVT-AC0, IPC-DT/H61XT-AC0



Touch Panel

This equipment has a touch panel that enables keyboard-less, mouse-less operations by communication with the host computer using the RS-232C cable.



Data input at the touch panel is processed by the touch panel controller and passed to the host PC via the serial port on the CPU in the controller.
Before the touch panel can be used, touch panel driver software must be installed. Note that the driver software is not bundled with this product. Purchase the one separately or download it from the CONTEC's web site.
For further details, refer to the READ_ME file for each driver.
<Option touch panel driver>
Windows XP/2000/NT 4.0/98SE/95OSR2 : IPC-SLIB-01
MS-DOS 6.2 : IPC-TPB1-DRV

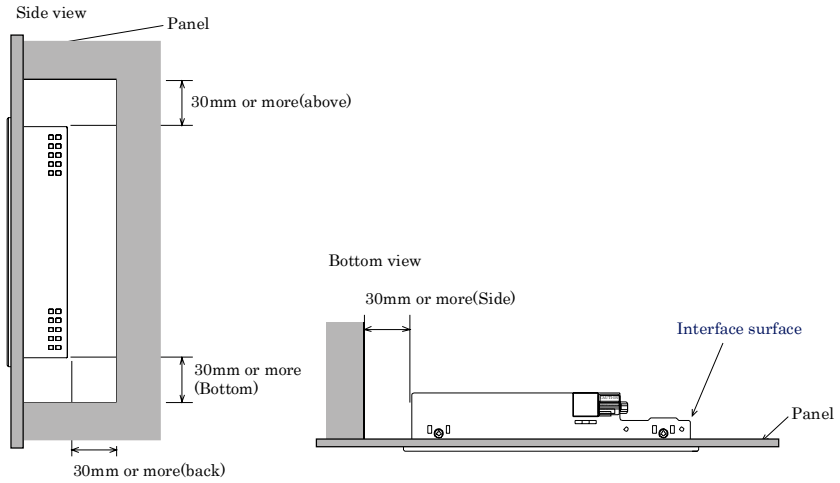
▼ CAUTION

- The USB touch panel driver software requires V1.40 or later of IPC-SLIB-01.
- The USB connection can only be used on Windows XP, 2000, or 98SE. Connect via the RS-232C interface if using a different OS.
- Use either USB or RS-232C for connecting the touch panel. The touch panel cannot be connected via both interfaces at the same time.
- When using the USB connection, the screen image may disappear momentarily when the USB cable is connected or disconnected and when the computer power is turned ON or OFF.

Hardware Setup

◆ Installation Requirements

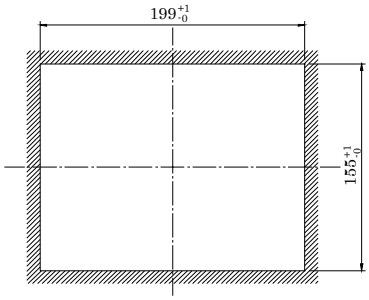
To maintain the ambient temperature within the installation environment requirement range, provide a gap of 30mm or more between the main unit and any adjacent equipment.



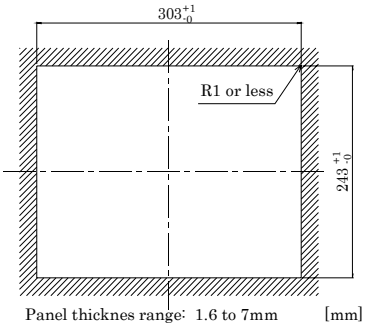
◆ Panel Cut

Cut the display mount panel in the following dimensions. The four corners of the solid-line rectangle define the panel cut dimensions.

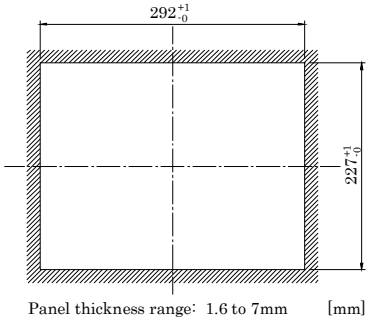
■ IPC-DT/S61VT-DC1



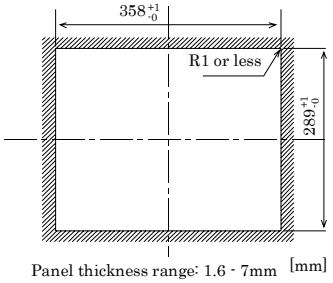
■ IPC-DT/L61SVT-DC1, IPC-DT/L61SVT-AC0



■ IPC-DT/M61VT-DC1, IPC-DT/M61VT-AC0



■ IPC-DT/H61XT-DC1, IPC-DT/H61XT-AC0



The specification, color, and design of a product may be changed without a preliminary announcement.